AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1 1. (Currently Amended) A method of communicating in a wireless network,
- 2 comprising:
- 3 pre-allocating, to a packet-switched real-time, interactive communications
- 4 application, resources of at least one node of the wireless network, the pre-allocated
- 5 resources comprising resources normally allocated in response to a call setup request,
- 6 wherein the pre-allocated resources include resources relating to a link with a
- 7 predetermined quality of service, wherein the pre-allocating is performed by a system
- 8 having a processor, and the pre-allocating includes storing a pointer associated with a
- 9 particular mobile station or a particular group of mobile stations, where the pointer
- indicates that the pre-allocated resources are useable by the particular mobile station or
- 11 particular group of mobile stations for call setup;
- receiving, from the particular mobile station or a member of the particular group
- of mobile stations, a first call setup request after pre-allocating the resources; and
- establishing, in response to the first call setup request, a packet-switched
- real-time, interactive communications session through the wireless network using the
- pre-allocated resources of the at least one node.
- 1 2. (Original) The method of claim 1, wherein pre-allocating the resources comprises
- 2 pre-allocating resources of one of a base transceiver system and base station controller.
- 1 3. (Original) The method of claim 1, wherein pre-allocating the resources comprises
- 2 pre-allocating resources of a packet data serving node.
- 1 4. (Original) The method of claim 1, wherein pre-allocating the resources comprises
- 2 pre-allocating resources of at least one of a press-to-talk server, voice-over-Internet
- 3 Protocol server, and a call session control function module.

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1 5. (Previously Presented) The method of claim 1, wherein pre-allocating the

- 2 resources further comprises allocating the link between the at least one node and a second
- 3 node in the wireless network to carry call control packets for the packet-switched real-
- 4 time, interactive communications application, wherein the link comprises a dedicated
- 5 channel.
- 1 6. (Original) The method of claim 5, wherein allocating the dedicated channel
- 2 between the at least one node and the second node in the wireless network to carry
- 3 packets for the packet-switched real-time, interactive communications application
- 4 comprises allocating one of a T1/E1 trunk, Ethernet link, and IP route.
- 1 7. (Previously Presented) The method of claim 1, wherein pre-allocating the
- 2 resources comprises pre-allocating binding information of a mobile station, the binding
- 3 information to establish a relationship between a radio domain and a packet domain, the
- 4 method further comprising:
- 5 storing the binding information in a base station controller; and
- 6 using the binding information stored in the base station controller for establishing
- 7 the packet-switched real-time, interactive session in response to the first call setup
- 8 request.
- 1 8. (Currently Amended) The method of claim 7, wherein pre-allocating the
- 2 resources comprises pre-allocating user-related information of [[a]]the particular mobile
- 3 station, the method further comprising:
- 4 storing the user-related information in the base station controller, wherein the
- 5 user-related information indicates the predetermined quality of service assigned to the
- 6 particular mobile station; and
- 7 using the user-related information stored in the base station controller for
- 8 establishing the packet-switched real-time, interactive session in response to the first call
- 9 setup request.

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- 1 9. (Currently Amended) The method of claim 1, wherein pre-allocating the
- 2 resources comprises pre-allocating binding information of [[a]]the particular group of
- 3 mobile stations, the method further comprising:
- 4 storing the binding information in a base station controller, wherein the binding
- 5 information is to establish a relationship between a radio domain and a packet domain;
- 6 and
- 7 using the binding information stored in the base station controller for establishing
- 8 the packet-switched real-time, interactive session in response to the first call setup
- 9 request.
- 1 10. (Original) The method of claim 1, further comprising:
- 2 in response to an event, a management system sending a request to pre-allocate
- 3 resources to the at least one node,
- 4 wherein pre-allocating the resources is performed in response to the request to
- 5 pre-allocate.
- 1 11. (Original) The method of claim 10, wherein sending the request to pre-allocate is
- 2 performed during a provisioning process.
- 1 12. (Original) The method of claim 1, wherein pre-allocating the resources is
- 2 performed in response to initiation of a mobile station.

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1 13. (Currently Amended) A system comprising: 2 an interface to a communications network; and 3 a controller having a processor and coupled to the interface to: 4 receive a request to pre-allocate call setup resources in the system to a 5 packet-switched real-time, interactive application; 6 in response to the request, pre-allocate the call setup resources in the 7 system, wherein the pre-allocated call setup resources enable the establishment of an 8 <u>include a pre-allocated</u> Internet Protocol (IP) route having a particular quality of service; 9 receive a call setup request after pre-allocating the call setup resources; 10 and 11 in response to the call setup request, set up a packet-switched real-time, 12 interactive communications session using the pre-allocated call setup resources including 13 the pre-allocated IP route. 1 14. (Currently Amended) The system of claim 13, wherein the pre-allocated call setup 2 resources further include at least one of hardware, software, and communications 3 elements of the system, wherein the pre-allocated call setup resources enable avoidance 4 of allocating the pre-allocated call setup resources during a call setup procedure in 5 response to the call setup request. 1 15. (Currently Amended) The system of claim 13, wherein the pre-allocated call setup 2 resources <u>further</u> include at least one of user-related information, binding information, 3 and mobility information, the system further comprising a storage to store the at least one 4 of user-related information, binding information, and mobility information, 5 the controller to set up the packet-switched real-time, interactive communications 6 session in response to the call setup request using the at least one of the user-related 7 information, binding information, and mobility information.

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1 16. (Original) The system of claim 13, wherein the pre-allocated call setup resources

- 2 further comprise a dedicated channel between the system and another node in a wireless
- 3 network.
- 1 17. (Original) The system of claim 13, comprising one of a base transceiver system,
- 2 base station controller, and packet data serving node of a wireless network.
- 1 18. (Original) The system of claim 13, wherein the packet-switched real-time,
- 2 interactive application comprises at least one of a press-to-talk application, voice-over-
- 3 Internet Protocol application, text chat application, and instant messaging application.
- 1 19. (Currently Amended) An article comprising at least one storage medium
- 2 containing instructions that when executed cause a system to:
- receive a request to pre-allocate resources for a packet-switched real-time,
- 4 interactive application, the pre-allocated resources normally allocated during a call setup
- 5 procedure, wherein the pre-allocated resources enable avoidance of allocating the
- 6 resources during a call setup procedure, wherein the pre-allocated resources include
- 7 resources related to a link with a predetermined quality of service;
- 8 in response to the request, pre-allocate the resources and store information
- 9 pertaining to the pre-allocated resources in a storage, wherein the pre-allocating includes
- 10 storing a pointer associated with a particular mobile station or a particular group of
- mobile stations, where the pointer indicates that the pre-allocated resources are useable
- by the particular mobile station or particular group of mobile stations for call setup; and
- subsequent to pre-allocating the resources, process a call setup request from the
- 14 particular mobile station or member of the particular group of mobile stations using the
- 15 pre-allocated resources.

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- 1 20. (Original) The article of claim 19, wherein the pre-allocated resources include at
- 2 least one of user-related information, binding information, and mobility information,
- 3 wherein the system comprises a base station controller having the storage to store the at
- 4 least one of the user-related information, binding information, and mobility information.
- 1 21. (Previously Presented) The article of claim 19, wherein the link includes an
- 2 Internet Protocol (IP) route having the predetermined quality of service.
- 1 22. (New) The method of claim 1, wherein the pre-allocated resources include a pre-
- 2 allocated Internet Protocol (IP) route having the predetermined quality of service.
- 1 23. (New) The article of claim 19, wherein the pre-allocated resources include a pre-
- 2 allocated Internet Protocol (IP) route having the predetermined quality of service.